

In the Claims:

Claims 1 to 39 (Canceled).

1 40. (New) A metallic article comprising a metallic substrate
2 including a protective layer adapted to provide protection
3 against at least one of oxidation or corrosion at a
4 substrate surface of said substrate, wherein:

5 said substrate has a nickel-based substrate
6 composition comprising nickel or a nickel alloy and further
7 comprising a content of aluminum representing greater than
8 4.5 weight percent of said substrate composition;

9 said protective layer is a surface region in said
10 substrate, extending into said substrate from said
11 substrate surface, as formed by diffusion of at least
12 platinum into said substrate surface; and

13 said surface region has a content of said platinum
14 such that an integrated proportion of said platinum over an
15 integration depth range is from 5 to 40 weight percent of
16 an overall composition of said integration depth range,
17 which extends from a minimum integration depth of from 0 to
18 5 μm into said substrate from said substrate surface, to a
19 maximum integration depth at which a local content
20 percentage of said platinum progressing from said substrate
21 surface has diminished to 5 weight percent.

1 41. (New) The metallic article according to claim 40, wherein
2 said integrated proportion of said platinum over said
3 integration depth range is from 5 to 30 weight percent of
4 said overall composition of said integration depth range.

1 42. (New) The metallic article according to claim 41, wherein
2 said minimum integration depth is 0 μm .

1 43. (New) The metallic article according to claim 40, wherein
2 said integrated proportion of said platinum over said
3 integration depth range is from 5 to 17.99 weight percent
4 of said overall composition of said integration depth
5 range.

1 44. (New) The metallic article according to claim 43, wherein
2 said minimum integration depth is 0 μm .

1 45. (New) The metallic article according to claim 40, wherein
2 said minimum integration depth is 0 μm .

1 46. (New) The metallic article according to claim 40, wherein
2 said content of aluminum represents at most 10 weight
3 percent of said substrate composition.

1 47. (New) The metallic article according to claim 40, wherein
2 a proportion of said aluminum relative to said nickel or
3 said nickel alloy in said surface region corresponds to a

4 proportion of said aluminum relative to said nickel or said
5 nickel alloy in said substrate composition.

1 48. (New) The metallic article according to claim 40, wherein
2 said metallic article is a component of a gas turbine.

1 49. (New) The metallic article according to claim 40, wherein
2 said metallic article is a component of a gas turbine
3 aircraft engine.

1 50. (New) The metallic article according to claim 40, wherein
2 said metallic article is a gas turbine blade.

1 51. (New) The metallic article according to claim 40, wherein
2 said protective layer is formed by diffusion of exclusively
3 at least one platinum-group element including said platinum
4 into said substrate surface.

1 52. (New) The metallic article according to claim 40, wherein
2 said protective layer is formed by diffusion of exclusively
3 said platinum into said substrate surface.

1 53. (New) The metallic article according to claim 40, wherein
2 said protective layer consists of said nickel-based
3 substrate composition and said platinum.

1 54. (New) The metallic article according to claim 40, wherein
2 said metallic article does not include an aluminized or
3 alitized surface layer.

1 55. (New) A metallic article including a corrosion or oxidation
2 protective layer at a surface of a metallic substrate,
3 wherein:

4 said substrate has a nickel-based substrate
5 composition comprising nickel or a nickel alloy and further
6 comprising a content of aluminum more than 4.5 weight
7 percent of said substrate composition;

8 said protective layer is a surface region in said
9 substrate consisting of platinum diffused into said
10 substrate composition in said surface region from a
11 substrate surface of said substrate;

12 said surface region, extending from said substrate
13 surface into said substrate to a depth at which a local
14 concentration of said platinum has diminished to 5 weight
15 percent, has an averaged content of said platinum from 5 to
16 17.99 weight percent of an overall composition of said
17 surface region; and

18 said overall composition of said surface region
19 consists of said substrate composition and said platinum.

1 56. (New) A method of producing a metallic article having an
2 oxidation or corrosion protective layer at a substrate
3 surface of a metallic substrate, comprising the steps:

4 a) providing said metallic substrate that has a
5 nickel-based substrate composition comprising nickel
6 or a nickel alloy and further comprising a content of
7 aluminum greater than 4.5 weight percent of said
8 substrate composition; and

9 b) diffusing platinum into said substrate surface of said
10 substrate so as to form said protective layer as a
11 surface region in said substrate extending from said
12 substrate surface to a depth in said substrate at
13 which a local content percentage of said platinum has
14 diminished to 5 weight percent;

15 wherein said surface region has an integrated proportional
16 content of said platinum being from 5 to 40 weight percent
17 of an overall composition of said surface region.

1 57. (New) The method according to claim 56, wherein said
2 integrated proportional content of said platinum is from 5
3 to 30 weight percent of said overall composition of said
4 surface region.

1 58. (New) The method according to claim 56, wherein said
2 integrated proportional content of said platinum is from 5
3 to 17.99 weight percent of said overall composition of said
4 surface region.

1 59. (New) The method according to claim 56, wherein said
2 diffusing step consists of diffusing exclusively platinum

3 into said substrate surface so as to form said protective
4 layer as said surface region.

1 60. (New) The method according to claim 56, wherein said
2 diffusing step comprises applying a platinum crossing
3 material onto said substrate surface and then age hardening
4 said metallic substrate with said platinum crossing
5 material on said substrate surface, so that said platinum
6 diffuses from said platinum crossing material through said
7 substrate surface into said surface region of said
8 substrate.

1 61. (New) The method according to claim 56, excluding any
2 aluminizing or alitizing step.

[RESPONSE CONTINUES ON NEXT PAGE]